

FUNCTIONALITY PROBLEM SOLVING INNOVATION
Reception - Subject planning overview: DT Mechanical and Electrical

Year		Unit/key question	
Reception		Making a pop-up puppet	
Enquiry question			
How can I make a moving toy? Can I use a simple pop-up mechanism?		Is my product fit for purpose? Does it slide properly? Is the puppet the right size?	
Prior Learning		Future Learning	
		To create a card with moving parts Explain how to adapt mechanisms, using bridges or guides to control the movement Design a moving card for a given audience Create a clearly labelled drawing which illustrates movement Follow a design to create a moving model that uses levers and sliders Experiment with linkages adjust the widths, lengths and thicknesses of card used Use split pins for pivots	
What children need to know or do to be secure			
<u>ESSENTIAL KNOWLEDGE</u> Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function Share their creations, explaining the process they have used Make use of props and materials when role playing characters in narratives and stories		<u>CORE KNOWLEDGE</u> - I will: Select and manipulate materials to create a desired outcome. Safely handle tools and use some techniques to cut and join materials e.g. Scissors, glue, tape. Talk about what they are making and how they are making it. <u>SKILL</u> - I can: Select resources and tools that they want to use and to handle transport and store things carefully. Take things apart and build/rebuild. Use tools to manipulate materials Make observations about the features of a product Use my senses to explore and describe objects?	
Key vocabulary			
Plan, Draw. Ideas, Design, Complete, Product, Final		Make, Build, Combine, Join, Shape, Tools	Change, Like, Dislike, Next Time, Better, Worse, Different, Instead
Common misconceptions			

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